

(19) United States

(12) Patent Application Publication (10) Pub. No.: US 2017/0175413 A1 Curlander et al.

(43) **Pub. Date:**

Jun. 22, 2017

(54) MULTI-LEVEL FULFILLMENT CENTER FOR UNMANNED AERIAL VEHICLES

(71) Applicant: Amazon Technologies, Inc., Seattle, WA (US)

(72) Inventors: James Christopher Curlander,

Bellevue, WA (US); Asaf Gilboa-Amir, Seattle, WA (US); Lauren Marie Kisser, Seattle, WA (US); Robert Arthur Koch, Issaquah, WA (US); Ricky Dean Welsh, Bellevue, WA (US)

(21) Appl. No.: 14/975,618

(22) Filed: Dec. 18, 2015

Publication Classification

(51) Int. Cl. E04H 14/00 (2006.01)(2006.01)B64C 39/02 B64F 1/02 (2006.01)B64F 1/32 (2006.01)

B64F 1/10 (2006.01)B64F 1/36 (2006.01)

U.S. Cl.

CPC E04H 14/00 (2013.01); B64F 1/10 (2013.01); B64F 1/362 (2013.01); B64F 1/025 (2013.01); B64F 1/32 (2013.01); B64C 39/024 (2013.01); B64C 2201/128 (2013.01); B64C 2201/20 (2013.01); B64C 2201/18 (2013.01); B64C 2201/066 (2013.01)

(57) ABSTRACT

A multi-level (ML) fulfillment center is designed to accommodate landing and takeoff of unmanned aerial vehicles (UAVs), possibly in an urban setting, such as in a densely populated area. Unlike traditional fulfillment centers, the ML fulfillment centers may include many levels (i.e., stories, floors, etc.) as permitted under zoning regulations for respective areas. The fulfillment center may have one or more landing locations and one or more deployment locations to accommodate UAVs, which may delivery at least some of the items from the fulfillment center to locations associated with customers.

